

Exhibit 8

1
2 UNITED STATES DISTRICT COURT
3 SOUTHERN DISTRICT OF NEW YORK
4

5 -----
6 FEDERAL HOUSING FINANCE)

7 AGENCY, etc.,)

8 Plaintiff,)

9 v.) 11 CIV. 6201 (DLC)

10 NOMURA HOLDING AMERICA,)

11 INC., et al.,)

12 Defendants.)
13 -----
14

15 SULLIVAN & CROMWELL LLP

125 Broad Street

New York, New York 10004-2498

16 November 13, 2014

9:35 A.M.

17
18 VIDEOTAPED DEPOSITION OF

19 JOHN A. KILPATRICK, PH.D., MAI, FRICS

20 VOLUME I
21
22
23

24 REPORTED BY:

25 DEBRA SAPIO LYONS, RDR, CRR, CCR, CPE

1 JOHN A. KILPATRICK

2 in the Merrill Lynch deposition that
3 you believe to be incorrect?

4 A. Well, I can't recall as I
5 sit here. I have not reviewed that
6 deposition in a while. I certainly
7 went over it. If I missed anything
8 when I went over it, I can't recall.

9 Q. Okay. But just -- just to
10 be clear, as -- as you sit here today
11 in this deposition, there's nothing
12 that you know of in the Merrill Lynch
13 deposition that you believe to be
14 incorrect?

15 A. Nothing that I know of, but,
16 again, I haven't thought of it in quite
17 a few months and as -- as you know, a
18 couple-of-day deposition, so if I
19 missed anything and failed to
20 acknowledge that on the errata that I
21 submitted, what, about eight months
22 ago, then certainly stand ready to
23 correct that here.

24 Q. Now --

25 MR. RAND: I'm just going on

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2 the record. I don't want to muddy
3 up the record. We can talk later.
4 But we have an agreement I believe
5 with Nomura about the use of Merrill
6 depts verse the use of depts in HSBC
7 and Goldman, but we can talk
8 off-line. Go ahead.

9 BY MR. HOLLEY:

10 Q. Okay. You were also
11 deposed, Dr. Kilpatrick, in the FHFA
12 cases against Goldman Sachs, HSBC and
13 Ally on June 30th, July 1 and July 14
14 of this year; correct?

15 A. That's correct.

16 Q. And you sought to make your
17 answers in -- in that three-day
18 deposition as accurate as you could,
19 didn't you?

20 A. I did.

21 Q. Did you review the
22 transcripts of the depositions that you
23 gave in the Goldman Sachs, HSBC and
24 Ally cases?

25 A. I did.

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2 Q. And as you sit here today,
3 is there anything in your sworn
4 testimony in that three-day deposition,
5 in the Goldman, HSBC and Ally case that
6 you believe to be in -- excuse me,
7 incorrect?

8 A. Nothing that I can think of
9 as I sit here. Of course, that was, if
10 I recall correctly, 28 hours of
11 deposition testimony. And as I went
12 through it, I was certainly focused on
13 some -- some things that I want to
14 clear the record on, but if I missed
15 anything in there, I think my Nomura
16 report stands on its own. You know, I
17 -- I -- I have -- I certainly don't
18 recall anything that I missed, but that
19 was a lot of deposition testimony to go
20 through.

21 Q. Now, you are a licensed Real
22 Estate Appraiser; is that right?

23 A. Yes.

24 Q. In fact, you're a licensed
25 Real Estate Appraiser in all 50 states

1 JOHN A. KILPATRICK
2 of the United States and the District
3 of Columbia; correct?

4 A. Well, two caveats. Number
5 one, the -- the term of art is "state
6 certified" and I believe I am last I
7 checked.

8 Q. Okay. Is there any reason
9 for you to doubt that you are a State
10 Certified Appraiser in all 50 states
11 and in the District of Columbia?

12 A. No, the -- the -- no
13 particular reason to doubt. The
14 renewal dates are -- are not uniform
15 through the states. They are scattered
16 and -- and frequently not the 1st or
17 the 30th of the month, and I have staff
18 who keeps track of all of that for me.
19 There -- there are occasions when one
20 gets missed and we -- we pick that up
21 as quickly as we can.

22 But to the best of my
23 knowledge sitting here, I'm currently
24 licensed in all 50 states and D.C.

25 Q. Why did you think it was

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2 important to be a State Certified
3 Appraiser in so many different
4 jurisdictions?

5 A. Well, my work goes all over
6 the United States. And prior to a
7 couple of years ago, I -- I had been
8 licensed in a number of states,
9 probably half or more of the states at
10 one time or another. And when I took
11 on the stream of cases which --
12 which -- of which Nomura is part, I
13 recognized that I would be reviewing
14 property all over the United States.
15 Some states request or require that an
16 appraiser reviewing appraisals done in
17 that state be licensed in that state,
18 some don't. And so to err on the side
19 of caution, I simply directed my staff
20 to get me licensed in every state
21 rather than try to make determinations
22 with sometimes ambiguous regulatory
23 language about whether I needed to be
24 licensed in a given state or not.

25 Q. You view yourself as a very

1 JOHN A. KILPATRICK
2 experienced Real Estate Appraiser;
3 right?

4 A. I think so, yes.

5 Q. How many real estate
6 appraisals have you performed in your
7 career?

8 A. Well, tens of thousands.

9 Q. When you perform a real
10 estate appraisal, you're not just
11 mechanistically applying formulas, are
12 you?

13 A. What do you mean by that?

14 Q. Well, when you perform a
15 real estate appraisal, you are
16 exercising your own independent
17 judgment based on your experience;
18 correct?

19 A. In a -- in a formulaic
20 manner which has to be consistent with
21 generally accepted appraisal
22 methodology and standards. In other
23 words, we have a very robust body of
24 appraisal standards, supplemental
25 standards, guidelines, methodology with

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2 which an appraiser is -- is obligated
3 to be familiar. For that reason, while
4 we do use terms like an opinion of
5 value, that opinion of value has to be
6 arrived at in a manner that's
7 consistent with mechanistic processes,
8 if you will, that would be recognized
9 by the appraiser's peers in the
10 industry and -- and accepted by and
11 utilized by that appraiser's peers in
12 the industry.

13 Q. When you do a real estate
14 appraisal, you aren't simply looking at
15 a checklist and applying it based on
16 thresholds that you have listed there;
17 correct?

18 A. Well, I do. I mean, we use
19 checklists all the time. We have in
20 our firm checklists which we have to
21 follow; and indeed appraisal standards,
22 USPAP, provides checklists which
23 appraisers are obligated to follow. If
24 I were to fail to follow those
25 checklists, I would be outside of the

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2 appraisals which gets done in America.

3 And so appraisals get done
4 for a lot of other reasons. I happen
5 to do a lot of litigation and so
6 oftentimes I'll get called in and --
7 and a attorney will say, "We have this
8 property in Oshkosh, Wisconsin and it's
9 been impacted by a garbage dump across
10 the street. You know, what's the
11 probable impact on value as a
12 percentage of the otherwise unimpaired
13 value?"

14 Well, there's a whole host
15 of literature, research that -- that
16 will -- will help inform that opinion.

17 So I could say, "Well, all
18 things being equal, under most normal
19 circumstances the literature would tell
20 us that property's probably impacted
21 between X percent and Y percent." I've
22 now performed an appraisal under --
23 under appraisal standards. I have to
24 inform my client that this opinion of
25 value indeed falls under the rubric of

1 JOHN A. KILPATRICK

2 USPAP. I've never gone to Oshkosh,
3 Wisconsin and viewed that property, but
4 I have valued a property in Oshkosh,
5 Wisconsin and I've never been there.
6 Happened to be a hotel.

7 But the -- the point of it
8 is: There are many occasions when an
9 appraiser would -- would -- would
10 render an opinion about value about a
11 piece of property without having
12 physically inspected the property.

13 Q. Before your focus in your
14 career, you know, became litigation,
15 did you do appraisals in connection
16 with loans by lending institutions to
17 individual homeowners?

18 MR. RAND: Objection, form.
19 Go ahead.

20 A. A few.

21 Q. Okay. And in those
22 appraisals that you did for lending
23 institutions where individual
24 homeowners were buying properties, did
25 you ever do one of those without

1 JOHN A. KILPATRICK

2 physically inspecting the property?

3 A. I don't think so.

4 Q. Why not?

5 A. The supplemental standards
6 proffered by the agencies which govern
7 residential mortgage lending appraisal
8 require that that be done.

9 Q. Now --

10 A. In other words, for -- for
11 that specific kind of appraisal, that's
12 -- that's contained in a supplemental
13 standard.

14 Q. Now, focussing again on
15 the -- on the appraisals that you
16 performed, residential real estate
17 transactions for lending institutions,
18 did you inspect both the exterior and
19 the interior of the property in
20 connection with the appraisal that you
21 performed?

22 A. Yes.

23 Q. Why?

24 A. Again, because in that very
25 specific circumstance, which is in a --

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2 a federally regulated lending
3 environment, that's contained in the
4 supplemental standards.

5 And it -- it varies
6 according to which set of supplemental
7 standards you're -- you're adhering to.
8 FHA, for example -- and none of these
9 Nomura appraisals were FHA by the way,
10 but FHA requires that you actually
11 climb in the attic. They jokingly call
12 it a head-and-shoulders inspection.
13 You have to -- they literally in the
14 FHA regs require that the appraiser
15 insert his -- his or her head and
16 shoulders into the attic with a
17 flashlight and the same as --

18 Q. Hope there aren't any bats
19 up there; right?

20 A. Same as -- and our -- you
21 know, raccoons being more common in the
22 south.

23 But -- and the same is true
24 in the -- in the crawl space, if it's a
25 crawl space house.

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2 Now, that level of -- of
3 inspection is not required under the
4 GSEs, but -- but it is -- it is done
5 and I have done it because it's a GSE
6 requirement.

7 Q. In these real estate
8 appraisals that you performed for
9 purchases of houses where there were
10 mortgages from banks, did you rely on
11 aerial photos or Google Maps or some
12 other pictures in lieu of going to
13 visit the property?

14 A. Not in lieu of, but
15 certainly in addition to.

16 Now, at the time I got
17 started doing this, there wasn't a
18 Google, but there were maps which, in
19 fact, appraisers were obligated to --
20 to review. FEMA flood plain maps, for
21 example. So I would do those in the
22 conduct of those appraisals, but not in
23 lieu of them.

24 Q. Would you agree with me that
25 two competent real estate appraisers,

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2 these Greenfield AVMs. Now, nobody
3 measures the R squared for individual
4 one-off appraisals, but I can tell you
5 that I don't think individual
6 appraisals -- individual appraisers
7 would suggest to you that they're able
8 to explain 86, 87 percent of the
9 variance in property values using
10 heuristic one-off methods, so indeed
11 the accuracy of the -- the Greenfield
12 AVM speaks for itself.

13 Q. But can you answer the
14 question that I asked you which --
15 and -- and I think you -- you remember
16 what the question is; right?

17 A. Well, I believe I do. And I
18 thought I just did. I don't mean to be
19 silly, but that was my answer to your
20 question.

21 Q. Okay. So -- so it's your
22 testimony here today that the
23 Greenfield AVM does a better job of
24 valuing the Nomura subject properties
25 than you, yourself, could do in a

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2 standard appraisal?

3 MR. RAND: Objection, form.

4 Go ahead.

5 A. And my answer is I've never
6 really thought about me, myself, if I
7 ran around the country and tried to
8 value a couple of thousand Nomura
9 properties; and -- and I'm not trying
10 to hold myself out individually as
11 whether I'm a better appraiser than
12 these individual appraisers you had
13 working for you or your -- your client
14 had working for them, but I am holding
15 out that the Greenfield AVM has a high
16 degree of accuracy and a high degree of
17 explanatory power. And so with that in
18 mind, it -- it -- it certainly appears
19 that the Greenfield AVM sets an
20 extremely high threshold that I or any
21 other appraiser would have a tough time
22 reaching.

23 Q. Have you sought to market
24 the Greenfield AVM to lending
25 institutions based on your view that it

1 JOHN A. KILPATRICK

2 does a better job than human appraisers
3 in reaching valuations for residential
4 properties?

5 A. Have I thought about it?

6 Q. Sure. Have you thought
7 about it?

8 A. Oh, yeah, I've thought about
9 it. I'm just not doing it.

10 Q. Why not?

11 A. Well, number one, we are
12 kind of busy right now doing other
13 things. I mean, we do market the
14 Greenfield AVM, but as it happens,
15 we've -- we've -- we're presently using
16 it in litigation contexts, but -- and
17 -- and certainly outside of the scope
18 of my testimony here today, but -- but
19 to answer your question directly, I
20 mean, we're constantly thinking about
21 ways in which to utilize it in other
22 capacities, but -- but we're not doing
23 any of that right now.

24 Q. Now, it's your opinion that
25 the Greenfield AVM generates what you

1 JOHN A. KILPATRICK

2 call the true market value of the
3 Nomura subject properties; is that
4 right?

5 A. Did -- did I use that exact
6 phraseology in my report?

7 Q. I'll represent that you did.
8 I mean, I'm happy to get out the report
9 if you want, but is -- is it your view
10 that the Greenfield AVM generates the
11 true market value of the Nomura subject
12 properties?

13 A. It -- it is, yes.

14 Q. Okay. And in your opinion,
15 the true market value produced by the
16 Greenfield AVM should trump the actual
17 price at which the Nomura properties
18 were sold; is that right?

19 A. Of course.

20 Q. And why is that?

21 A. Well, I go back to the
22 Appraisal Institute's edicts about
23 that, that the market value is not
24 supposed to be just a validation of the
25 original sales price. We know that

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original sales prices even when reached at between arm's length participants may include other things. They may be representative of bidding wars. They may be representative of -- and -- and the Appraisal Institute in -- in one of its texts talks about foreshortened marketing periods, that if the normal exposure time in a market, for example, is 90 days, but this particular property only sold in nine days, then the appraiser needs to take a very skeptical eye to a selling price that was arrived at in only nine days.

If the seller has agreed to provide personal property or has agreed to pay non-market financing arrangements, buy down the points, buy down the -- the interest rate, pay the closing costs, any of those things. If there were factors about the property that the buyer did not -- did not know about and we find that out in -- in contaminated property cases, that often

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2 there's a -- not a level of disclosure
3 or due diligence done. Finally, what
4 if the marketing time rather than
5 being -- I pointed out 90 days and a --
6 and a property selling in nine. What
7 if the normal marketing time is 90
8 days, but this property took 900 days
9 to sell. You know, that's certainly
10 evidence that there's a problem
11 associated with the sale of this
12 property.

13 So all of those together can
14 point out to you reasons why a sales
15 price needs to be viewed skeptically
16 and the appraiser needs to arrive at an
17 independent determination of true
18 market value which may have little to
19 do with the actual purchase price.

20 Q. Now, what work, if any, have
21 you done to look at each of the Nomura
22 subject properties to determine whether
23 the kinds of things you just testified
24 about are present, things like
25 undisclosed contamination?

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2 them do. I have seen some, and I can't
3 identify which ones they are, but I
4 have seen some commercial AVM outputs
5 that provide a -- a high and a low
6 estimate, but I can't even tell you
7 which ones those are.

8 Q. Why doesn't the Greenfield
9 AVM provide a range of values as
10 opposed to a single point estimate of
11 value?

12 A. 'Cause that's not its
13 purpose.

14 Q. What do you mean when you
15 say "that's not its purpose"?

16 A. Its purpose is to render
17 a -- a -- it -- its purpose is to be a
18 tool that aids me in rendering a -- an
19 opinion of market value, not to render
20 a -- a range of market values, so it's
21 -- it's not its -- its purpose.

22 Q. Is there any instance with
23 regard to any of the Nomura subject
24 properties where your opinion about
25 the -- the value of that property

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2 differs by one penny from the output of
3 the Greenfield AVM?

4 A. No. Not after I have taken
5 steps to verify the statistical
6 accuracy of the model, and not after
7 I've taken appropriate steps to be able
8 to utilize that tool consistent with
9 good appraisal practice.

10 And I'll give you an
11 example. I've likened my AVM to a
12 sales adjustment grid. Well, if I'm an
13 appraiser and I was limiting my
14 analysis to a sales adjustment grid, I
15 performed all the necessary steps, did
16 all the calculations, may very well use
17 a computer to help me do that, by the
18 way, and -- and came out with a value
19 at the end of the sales adjustment
20 grid, well, why would my value opinion
21 differ from that. I mean I've operated
22 the sales adjustment grid. I've
23 selected the data to go into it.
24 I've verified that the calculations
25 worked properly. I've done the

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2 reconciliation at the end. I've --
3 I've found the final answer at the end
4 of the grid. And the AVM is
5 identically the same sort of product.
6 In other words, if I have done all of
7 the work with respect to the AVM, I
8 developed it, I calibrated it, I
9 checked the statistical
10 characteristics, I oversaw the data
11 gathering, I oversaw the data
12 applications within it, why would I
13 disagree with it.

14 Q. Are you aware of any
15 commercial AVM that produces a reliable
16 determination of the reasonableness of
17 an opinion of value about a particular
18 property rendered by a licensed Real
19 Estate Appraiser five or more years in
20 the past?

21 A. I'm not aware one way or the
22 other. There may be. I'm just not
23 familiar with them as I sit here today.

24 Q. You can't identify one for
25 me that meets the criteria that I just

1 JOHN A. KILPATRICK

2 set out in my question?

3 A. No. That doesn't mean they
4 don't exist. That just means I can't
5 identify any as I sit here.

6 Q. Would you agree with me that
7 all commercial AVMs have difficulty
8 accounting for property specific
9 attribute -- attributes both positive
10 and negative that can be assessed by a
11 licensed Real Estate Appraiser with
12 boots on the ground on the subject
13 property?

14 A. I don't know that I agree
15 with that as a blanket statement.

16 Q. Do you agree with it at all?

17 A. Well, it's a multipart
18 question. You're asking about all
19 AVMs; and as I've already testified,
20 you know, I don't -- I don't know how
21 all AVMs work. In other words, most of
22 them are proprietary black boxes. Mine
23 on the other hand, I do know how it
24 works and I do know that it's got an
25 extraordinarily high R squared. My

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2 overall OLS R squared I think is 86, 85
3 or 86 percent. My overall OLSXY is 86
4 or 87 percent. Those are
5 extraordinarily high explanatory
6 powers, which tells me that on average
7 my AVM is doing a much better job than
8 boots-on-the-ground appraisers so I can
9 at least speak to mine, that it does
10 really, really good job.

11 Now, is that true of all
12 boots-on-the-ground appraisers? No.
13 There's some that are very, very good.
14 I'm not -- I'm not blanket making
15 statements about all appraisers and all
16 appraisals. I'm just making some
17 statements about these Nomura
18 appraisals.

19 Q. Now, in connection with the
20 supplemental report that you submitted
21 on October 6, did you have occasion to
22 look at the -- the survey results of
23 Lee Kennedy's surveys of commercial
24 AVMs?

25 A. Would you provide me with

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2 that? I don't have a copy of it in
3 front of me and I don't have it
4 committed to memory.

5 Q. Oh, you mean your October 6
6 report?

7 A. Yes.

8 (Exhibit 58702, Expert
9 Report of John A. Kilpatrick, Ph.D.
10 October 6, 2014, is marked for
11 identification.)

12 BY MR. HOLLEY:

13 Q. So we're going to mark as
14 Exhibit 58702 a document entitled
15 Expert Report of John A Kilpatrick
16 Ph.D. dated October 6, 2014.

17 A. Thank you.

18 Q. And you should feel free to
19 look at as much of this as you like
20 obviously, but the part I'm talking
21 about appears to Pages 8 and 9.

22 A. (Reviewing document.)

23 Yes, I've had the
24 opportunity to review Mr. Kennedy's
25 work.

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2 Q. Okay. And did you, in the
3 context of reviewing what Mr. Kennedy
4 did, look at the descriptions provided
5 by the vendors of the Real Info Inc.,
6 Collateral Analytics and two DataQuick
7 AVMs?

8 A. I may have. I was more
9 interested in the numbers than in
10 the -- the marketing literature.

11 Q. Let's -- I want to turn back
12 now to the Greenfield AVM, to your AVM.

13 Can you tell me how it
14 accounts for whether one of the Nomura
15 subject properties is located on a busy
16 street with traffic noise?

17 A. The AVM?

18 Q. Yes.

19 A. The credibility assessment
20 does that. The AVM would pick that up
21 via the tax assessment data to the
22 extent that the tax assessor has picked
23 that up as a factor influencing value.
24 In other words, I utilize tax
25 assessment information specifically

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2 because tax assessors look at things
3 like that; and if, in fact, a property
4 being located on a busy street impacts
5 its value, so it doesn't always, but to
6 the extent that it does impact value,
7 then the tax assessor would be expected
8 to pick that up.

9 Now, I test to see if the
10 tax assessor's work is statistically
11 significant; and, in fact, I find that
12 in 96 percent of the cases, greater
13 than 96 percent of the cases the tax
14 assessment data is, in fact,
15 statistically significant, which tells
16 me that tax assessors to the extent
17 that influences value are picking that
18 up.

19 Q. If tax assessed value is
20 such a great proxy for market value of
21 properties, then why do people ask for
22 appraisals rather than just looking at
23 the tax assessed value in the records
24 of the county?

25 A. Well, for three reasons, and

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2 you asked me about that earlier this
3 morning:

4 Number one, in not every
5 county is that true, and of course I
6 test and filter for that.

7 Number 2, as Goolsby
8 outlined in his journal article 15 or
9 so years ago in the Journal of Real
10 Estate Research, tax assessment data
11 may be unbiased, excuse me -- may be
12 biased but inconsistent. And so one
13 needs to make appropriate but usually
14 monotonic adjustments to the tax
15 assessment data in order to arrive at
16 the -- the tax assessor's determination
17 or the -- the appropriate determination
18 of fair market value.

19 Number three, tax assessment
20 data is usually as of one effective
21 date, whereas the -- the need for a
22 appraised value is as of a different
23 effective date. So there needs to be
24 some sort of time adjustment and that
25 time adjustment isn't always perfectly

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2 linear.

3 I said there would be
4 three, but there's actually a fourth.
5 There is often need to make some
6 adjustments. Tax assessors in my
7 investigation of tax assessment data
8 tend to use linear extrapolations where
9 sometimes curvilinear is more
10 appropriate. That's why sometimes you
11 see things like days squared in my
12 model or negative bath adjustments to
13 correct for the linearity in marginal
14 prices of baths for example.

15 So one can use tax
16 assessment data, but one best use it in
17 the context of a statistically valid,
18 tested, and calibrated model.

19 Q. So it's your testimony that
20 it is by intention that in certain of
21 the Nomura subject products --
22 properties the addition of a bathroom
23 causes the value of the house to go
24 down?

25 A. It is the -- there is a

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2 negative coefficient on the bathroom
3 adjustment to account for the
4 non-linearity in bathroom values
5 inherent in the tax assessment data.
6 In short, bathrooms doesn't have a
7 negative marginal value, it's positive
8 at all -- all reasonable levels. But
9 if one surmises or supposes a linear
10 relationship between bathroom and
11 value, then one at the margin may need
12 to make a negative adjustment to
13 account for the non-linearity between
14 number of bathrooms and value.

15 Q. Now, and correct me if I'm
16 wrong, but I think you said in most
17 cases you can make sort of direct
18 adjustments between tax assessed value,
19 monotonic I think you said, monotonic
20 adjustments to tax assessed value in
21 order to get to market value. Did I
22 understand you correctly?

23 A. In most instances, yeah.
24 It's -- our model works most of the
25 time; and certainly on average gives

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2 statistically robust inferences about
3 the -- the values of these underlying
4 Nomura properties.

5 The -- I'm -- I -- I think
6 for the purposes for which I've applied
7 this AVM, it works very, very well and
8 is statistically very, very powerful.

9 Q. It's close enough in your
10 view?

11 A. I don't know if I would use
12 the word "close enough." I don't know
13 that's got a statistical meaning. But
14 I think it's got statistically robust
15 characteristics.

16 Q. Okay. How does the
17 Greenfield AVM account for whether a
18 property is located down wind of an --
19 of an industrial facility that
20 generates noxious gases?

21 A. In -- in -- again, I would
22 expect that to be picked up by the
23 local tax assessor and to the extent
24 that has an impact on value, it would
25 be picked up in the value conclusion

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2 that if that appraisal has a sufficient
3 number of errors in it to accumulate
4 a -- by my scoring I -- I use a
5 numerical score, 20, but more to the
6 point, if that appraisal has a number
7 of errors in it, some egregious, some
8 not, then that appraisal cannot be
9 believed. It's not credible. A
10 reasonable user, a reasonable appraiser
11 would not believe the results of that
12 appraisal exercise. So I'm not making
13 judgment calls about the individual
14 appraisers --

15 Q. Well --

16 A. -- but to the extent that
17 their work was flawed.

18 Q. Well, isn't that inherent in
19 what you're doing?

20 If you say that no
21 reasonable appraiser applying USPAP and
22 other industry standards could have
23 believed the opinion of value delivered
24 in 2005 or 2006, aren't you necessarily
25 saying that they were engaged in

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2 misrepresentation?

3 A. Again, I'm not -- I'm not
4 going that far. I'm not trying to
5 pass -- help -- I'm not trying to pass
6 the buck from Nomura off to its
7 appraisers and say that these
8 appraisers were misrepresenting. I'm
9 trying to say these appraisals
10 misrepresented the -- the
11 characteristics of the property.
12 The -- and the term of art in appraisal
13 is less than credible. In other words,
14 these appraisals could not be believed.
15 But I'm not appointing accusatory
16 fingers at individual appraisers per
17 se.

18 Q. Is it your expert opinion
19 that tax assessed value is a good proxy
20 for all positive and negative
21 characteristics of a property that can
22 affect its value?

23 A. Not always. And in fact, as
24 I noted up front, I filter out some
25 counties where I don't find it to be

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2 useful. But indeed in my model on
3 average, it appears to work. I mean, I
4 get statistically significant
5 coefficients on the tax assessment
6 value 96 percent of the time and I end
7 up with R squareds in the high 80s
8 in -- in both my OLS and OLSXY models.
9 So it certainly appears to be.
10 Statistically, it's borne out that it
11 is on average.

12 Q. And putting aside the
13 counties where you've determined
14 that -- that tax assessed value is not
15 a good proxy for market value, so let's
16 just -- that's my assumption, we're
17 going to take those counties out. For
18 the remaining counties, is it your
19 expert opinion that tax assessed value
20 is a good proxy for all positive and
21 negative characteristics of a property
22 that can affect its value?

23 A. Not always. And, in fact,
24 that's why I have some filters on
25 comparables to make sure that I'm

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2 filtering out any outliers. I have a
3 surfeit of data so why use it all. I
4 just utilize that data that fits my
5 model. And so it's my testimony that
6 the tax assessment data that I use in
7 my model works. But I'm not here to
8 make blanket statements about all tax
9 assessment data in all counties in the
10 United States.

11 Q. Now, and the filtering that
12 you're referring to is the
13 cross-validation filter that the
14 Greenfield valuation model uses?

15 A. Sure. I do that; and that
16 allows me to utilize tax assessment
17 data in a manner which fits my model
18 and, therefore, statistically works.
19 So I mean at the end of the day what I
20 want is a model that's accurate on
21 average and that's what I end up with.

22 Q. Isn't that -- isn't that the
23 world upside down, Dr. Kilpatrick?

24 Aren't you doing something
25 called data censoring when you take out

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2 data observations that don't fit your
3 model rather than changing your model
4 so that it is explanatory of the data
5 that exists?

6 A. No. And -- and I think that
7 what we're trying to do here -- what
8 I'm trying to do here is develop and
9 utilize a model in the most accurate
10 fashion possible. I'm not data
11 censoring or cherry picking data in
12 order to tweak individual appraisal
13 determinations.

14 My cross-validation filter,
15 for example, is something I've utilized
16 in many, many models. Up to this point
17 I've used it to appraise thousands of
18 properties. I haven't changed it for
19 Nomura. And I certainly -- I don't
20 change it for individual properties.
21 Is it appropriate to filter data?
22 Yeah, of course. I mean there's a
23 robust set of econometric tools for
24 filtering data.

25 There's -- in SAS, for

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2 example, the common software package
3 that's used by many econometricians,
4 there's the robust OLS tool which
5 filters data. There's the Cook's D
6 statistic which filters data. There's
7 winsoring which is very common in the
8 biostatistics field for filtering data.
9 There's the PRESS statistic methodology
10 for filtering data.

11 In -- all of those, by the
12 way, are very, very close to my
13 cross-validation filter in -- in
14 application and in fundamentals.

15 So remember what the purpose
16 here is, is to have a really, really
17 good model that on average gives an
18 extremely accurate determination of
19 market value for these Nomura
20 properties. All of this filtering is
21 designed to make this model good. And
22 that's what I've done.

23 Q. Is it your testimony that
24 the Greenfield AVM is a hedonic model?

25 A. Yes.

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2 are able to examine retrospective
3 values.

4 Now, at that point the
5 question is: Does the model work. In
6 other words, it's not enough to simply
7 state a model and then use it. You
8 also have to test it. Part of our
9 filtering exercise, of course, is to --
10 is to filter data that works within the
11 confines of a model like that.

12 Our statistical outputs let
13 us know that the model actually works
14 extremely well; and, in fact, works
15 better than other AVMs, works better
16 than Nomura's contemporaneous AVMs.

17 So by retrospective
18 valuation using data that's gathered
19 from more recent years does a better
20 job valuing these Nomura properties
21 than Nomura's own AVMs done at the time
22 of the loan originations.

23 Q. And is that testimony based
24 on the middle 90 percent of the output
25 of the GAVM or on its entire output?

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2 A. It's based on an apples to
3 apples comparison with the Nomura AVM.
4 If you go to my expert report of
5 October 6 and turn to Page --

6 Q. Nine?

7 A. -- 9 -- that's not the page
8 I'm looking for. Excuse me.

9 Q. Sorry.

10 A. Nine may not be the page.
11 There was a table I produced to you,
12 and as I sit here I can't recall
13 whether it was in this or a subsequent
14 report, but there's a table I produced
15 to you where I looked at my AVM
16 compared to the same properties valued
17 by the Nomura AVM, and I apologize
18 'cause I thought it was in this report
19 but it may be somewhere else, and I
20 found that when you compared apples to
21 apples properties that I valued
22 compared to properties that Nomura had
23 valued, you found that I had better
24 statistical characteristics on those
25 properties than Nomura had using their

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2 AVM.

3 Q. And just to be clear, what
4 were you comparing in order to
5 determine accuracy?

6 A. I was comparing bias, and I
7 was also looking at the variance
8 statistics.

9 Q. Okay. Now, I just want to
10 go back. I know you've told me that
11 you make adjustments, but I want to
12 focus on the input, the data inputs to
13 the Greenfield AVM.

14 You would agree with me,
15 would you not, that all of the data
16 inputs to the Greenfield AVM are
17 contemporaneous data?

18 A. I can't recall the exact
19 dates of them. They're
20 contemporaneously gathered, but they're
21 not all contemporaneous with the
22 original dates of value.

23 Q. So, for example, the tax
24 assessed value is all from 2010 or
25 later; correct?

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2 A. Yes.

3 Q. And what about the other
4 characteristics of these properties, is
5 that data you're getting
6 contemporaneously or are you somehow
7 going to a source that existed only as
8 of 2005 or '6 when the loans were
9 originated?

10 A. No. We're gathering it
11 contemporaneously.

12 Q. Okay. Now, what -- what
13 study have you made to determine the
14 direction and extent of changes in tax
15 assessed valuation between the date
16 that the appraisals were done for the
17 Nomura subject properties and the date
18 on which the tax assessed valuations
19 were gathered for use in the Greenfield
20 AVM?

21 A. Well, indirectly, again, we
22 look at the summary statistics, the
23 statistical properties of the AVM. In
24 short, the fact that my AVM has such
25 powerful predictive power that explains

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2 such a high degree of the variance
3 tells us that the model works. In
4 short, it tells us that we don't have
5 to do that kind of study because
6 gathering the contemporaneous data,
7 making the appropriate adjustments, and
8 producing the appropriate coefficients
9 gives you a statistically powerful
10 model.

11 Q. So it didn't matter to you
12 in your analysis how tax assessed value
13 had changed in particular counties
14 between the time that you ran the GAVM,
15 the Greenfield AVM, and the time that
16 the appraisals were conducted for the
17 Nomura subject properties?

18 A. Right. Why would it? I
19 mean at the end of the day we're able
20 to use that data to produce a
21 statistically powerful model that on
22 average does a -- produces values with
23 a high degree of accuracy. So the --
24 the fact is the data works. The model
25 works. As we expected it would. And

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2 so the fact that there may have been --
3 may have been some changes in certain
4 counties doesn't impact our thinking
5 if, in fact, we have a model that works
6 very well.

7 Q. Now, you just said to me
8 that the model worked as you expected
9 it to work.

10 What did you mean by that?

11 A. Well, remember, I developed
12 this model based on years of experience
13 working with regression models and tax
14 assessment data. So when I put this
15 model together in the first place I
16 expected it was going to work based on
17 my experience as an appraiser for many,
18 many years. I would also be careful
19 about how I used the phrase "put this
20 model together" because I certainly
21 didn't just put it together for Nomura
22 or just put it together for the RMBS
23 litigation, but indeed this model is an
24 outgrowth, an evolution of the hedonic
25 modeling that I've been doing using tax

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2 assessment data for many, many years,
3 predating this RMBS litigation.

4 So at the end of the day, I
5 would, given my experience using tax
6 assessment data and hedonic modeling, I
7 would expect this model to work and low
8 and behold it does work per my
9 expectations.

10 Q. All right. Which
11 coefficient in the OLS and OLSXY
12 regressions adjust for changes in tax
13 assessed value between the date that
14 the GAVM is run and the date that the
15 property was originally appraised?

16 A. Well, you got -- you have to
17 take into account both the date
18 coefficient, the date squared
19 coefficient, and the coefficient on the
20 tax assessment value itself. So all of
21 these working together help make that
22 adjustment. In short, I'm not
23 isolating any one coefficient but the
24 model itself accounts for any
25 differences between 2010 and 2005.

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2 Q. I think my econometrics
3 professor would have wanted something a
4 little more precise than that. Which
5 -- which coefficient is it that makes
6 that adjustment?

7 A. Well, as a former professor
8 who has taught econometrics, I would
9 tell you that taking all these
10 variables together allow me to make
11 that adjustment from tax assessment
12 values in 2010 back to a market value
13 in 2005.

14 Q. Okay. And can you be any
15 more precise about how that happens?

16 A. I'd have to think about it.
17 I mean remember, this is not a
18 causality model but a correlation
19 model. And so to the extent we're able
20 to measure the correlation between
21 these variables as measured in 2010 and
22 the values that we're interested in in
23 2005, this model does an
24 extraordinarily good job of doing that.
25 And so to get any deeper into the --

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2 into the bee hive, we would simply need
3 to unpack the math of ordinary least
4 squares, the math of determining the
5 correlation between an array of
6 variables and a target variable of
7 market value.

8 It's -- we need to unpack
9 the matrix algebra that goes into it.
10 I don't want to get too mystical. I
11 don't want to suggest to the court that
12 there's a magic wand that one waves
13 over it, because we're using
14 extraordinarily well-developed ordinary
15 least squares techniques in order to be
16 able to take an array of variables and
17 find the correlation between this array
18 of variables and market value. And we
19 do so in a highly robust fashion using
20 time tested tools and techniques.

21 Q. When you say that the
22 Greenfield AVM is not a causality model
23 but a correlation model, can you tell
24 me what you mean by that?

25 A. Yeah. I'm not trying to say

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2 that there's some changes in tax
3 assessment data over time that really
4 matter. I'm simply saying that we can
5 use the tax assessment values in 2010
6 to determine what the market values
7 were in 2005, that there's a high
8 degree of correlation between those
9 two.

10 And it kind of makes sense
11 when you think about it. I mean, in
12 fact, it makes a lot of sense when you
13 think about it, because the tax
14 assessors in a given county are not
15 working in a void, they're not working
16 in a vacuum. So if I'm a tax assessor
17 in 2010 and I'm trying to determine the
18 market value for tax assessment
19 purposes of your property, then I'm
20 certainly influenced by the last five
21 years of history, right, and so what
22 that market value was in 2005
23 influences the tax assessment value
24 that I put on it in 2010. There's a --
25 there's a, what economists call a bit

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2 of a Granger causality there. One
3 tends to lead to the other. And so if
4 I'm -- if I, John Kilpatrick, am
5 utilizing 2010 data in order to find a
6 correlation with 2005 values, it's not
7 surprising that I would find that
8 because there's a fundamental
9 relationship between the two.

10 Q. In a correlation model,
11 would you agree with me that the
12 cross-validation filter has a very
13 large effect in making the correlation
14 appear larger than it otherwise would?

15 A. Well, it depends on how you
16 use cross-validation filter. I mean
17 here what I'm trying to do is filter
18 out data that doesn't apply. The --
19 part of the purpose of the
20 cross-validation filter is to get rid
21 of sales, if you will, that -- that
22 have nothing to do with middle-class
23 housing.

24 For example, I looked at raw
25 data pre-cross-validation filter and

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2 found that the house prices pre-filter
3 ranged up to \$113 million for the data
4 that I was using, the comparable data I
5 was using to value Nomura. Now, what's
6 a \$113 million house got to do with
7 your \$200,000.00 houses in Nomura?
8 Nothing, right? Absolutely nothing.

9 So the purpose of my
10 cross-validation filter is to get rid
11 of data that doesn't inform my model.

12 And as a result of that we
13 want a high degree of correlation and
14 we get a high degree of correlation by
15 removing data from the model that
16 doesn't properly inform the model.

17 Q. Why don't you do that on an
18 a priori basis before you run the
19 model?

20 If you see outliers in the
21 data, why don't you explore them and
22 take them out?

23 A. Well, we do it on an
24 a priori basis. We're just not doing
25 it on a one-by-one heuristic basis. In

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2 short, we established a filter. We've
3 used this filter consistently through
4 tens of thousands of valuations, and
5 the filter works in order to arrive at
6 a model that's got a high degree of
7 correlation. And so I am doing it
8 a priori, but I'm just not doing it
9 heuristically. I'm doing it in a
10 statistically valid and consistent
11 fashion with the way I've done it
12 before.

13 Q. How can you say that you're
14 doing it a priori when you're doing it
15 after you run the regression?

16 A. I'm doing it -- well, I see
17 your point.

18 I have determined the
19 cross-validation filter a priori. I
20 run it and the model that I use to run
21 it has been determined before I ever
22 run the regression. So in short, I'm
23 not cherry picking comparables in order
24 to tweak the model. I have determined
25 the filter long before I've ever run

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2 these Nomura subjects through the
3 model.

4 And I'm utilizing the very
5 same filter and the very same filtering
6 process on Nomura that I've used for
7 tens of thousands of other properties.

8 Q. Let me give you a
9 hypothetical and explain to me why this
10 isn't what you're doing.

11 I see a high correlation
12 between rainy days and people holding
13 umbrellas. I want to test this
14 proposition. So I have all my graduate
15 students go outside day after day after
16 day and hold umbrellas up in the air.
17 And 'lo and behold some days it rains
18 and I want to conclude that I have, you
19 know, established some connection
20 between these two because there's this
21 correlation, and I have a rule that I
22 establish at the outset that I'm going
23 to ignore all sunny days. Take them
24 out. It's a rule. It's okay. I
25 established it beforehand.

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2 Q. Absolutely.

3 A. Stretch my legs.

4 Q. Absolutely. You're the
5 boss, so let's take a break.

6 A. Thank you.

7 THE VIDEO TECHNICIAN: All
8 right then. We're going off the
9 record. The time is 12:27.

10 (A luncheon recess is held.)

11 THE VIDEO TECHNICIAN: We
12 are back on the record. The time is
13 1:10 p.m. This is the beginning of
14 Disk 3.

15 THE WITNESS: Counselor,
16 before we get started, I was
17 thinking over lunch about this issue
18 of contemporaneous versus
19 retrospective that we were chatting
20 about before lunch; and I want to
21 make it clear that the -- the sales
22 data that I'm utilizing is
23 retrospective. In other words, all
24 of the sales comps that I'm
25 utilizing in order to value the

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2 model are coming from on or before
3 the effective date of value of the
4 original appraisal. The -- what --
5 what is quote-unquote
6 contemporaneous, and I'm not sure
7 that that's even the right word, is
8 the tax assessment data which is
9 coming from the 2010 to 2012 time
10 period. That's simply what -- what
11 is available to me.

12 So what my model does is the
13 tax -- uses the tax assessment data
14 along with other hedonic
15 characteristics, including a time
16 adjustment and determines how
17 well those 2010 to 2012 tax
18 assessment values predict sales
19 which were retrospective to the
20 original date of value.

21 So I wanted to make sure
22 that -- that -- that I was -- I was
23 clear that all of that was
24 retrospective to the original date
25 of value.

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2 BY MR. HOLLEY:

3 Q. I appreciate that
4 clarification. Thank you.

5 And so just a couple more
6 questions on this point. Is it the
7 days and days squared coefficients of
8 the OLS and OLSXY regressions that take
9 account of changes in tax assessed
10 valuation between the date that the
11 appraisals were originally done and the
12 date that the tax assessed values were
13 specified?

14 A. Well, that's one factor. So
15 if we have comps which are coming from
16 the 2010-2012 time period, we're able
17 to compute a certain number of days
18 between the tax assessment value and
19 the -- the original comp sales date.
20 That then helps inform the valuation
21 portion of the model by letting us know
22 how much of an adjustment in terms of
23 days and days squared need to be made
24 between the tax assessment value for
25 the subject and its effective date of

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2 sale.

3 Q. Okay. So this may have been
4 my misunderstanding, but I thought the
5 days coefficient was a measure of the
6 number of days between an origin date
7 and the date of the sale of the
8 property. Is that wrong?

9 A. I think that may be wrong,
10 yeah.

11 Q. Okay. So it's your current
12 understanding that -- that days is a
13 measure of the difference between
14 the -- between what and what just so I
15 don't --

16 A. Between that tax assessment
17 value and the -- the -- the dates of
18 the -- either the sale or the
19 valuation.

20 Q. Okay. All right. Let's
21 turn to a different topic now.

22 What was the purpose of
23 calculating the forecast standard
24 deviation or the FSD of the Greenfield
25 AVM?

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2 A. Well, it's a gating
3 mechanism, if you will, that allows me
4 to determine which of the original
5 appraisals should be investigated for
6 credibility.

7 Q. And -- and how does it --
8 how does the forecast standard
9 deviation do that?

10 A. Well, let's presume a model
11 for a moment where I've determined what
12 the value of the property is. In fact,
13 this is what I've got. The -- the
14 literature tells us that a -- the
15 accuracy of a model ought to be within
16 a certain forecast standard deviation.
17 Freddie Mac, for example, proffers a
18 standard on forecast standard
19 deviation. I've measured my AVM up
20 against Freddie Mac and it measures
21 very well. So if an original appraised
22 value has a value such that it's above
23 that forecast standard deviation, then
24 it goes into my credibility
25 determination.

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2 Q. Okay. You apply some
3 filters to a 10 percent holdout set in
4 computing what the -- what the global
5 FSD of the Greenfield AVM is; correct?

6 A. That's correct.

7 Q. And one of those filters is
8 something referred to as the high
9 forecast error filter; right?

10 A. That's correct.

11 Q. And the high forecast error
12 filter removes properties where the
13 difference between the original
14 appraisal value and the value generated
15 by the Greenfield AVM is more than a
16 hundred percent; right?

17 A. Correct.

18 Q. And the point of doing that
19 is what?

20 A. Well, as you know, there are
21 a series of filters for what -- what I
22 refer to as the meta subjects. And the
23 -- the goal here is to end up with a
24 set of meta subjects which resemble, if
25 you will, what good valuations ought to

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2 want to make sure I understand it.

3 You did not look at any of
4 the Nomura subject properties to figure
5 out whether the ones captured by the
6 hundred percent forecast -- or the high
7 forecast error filter, in fact, had
8 data errors or incorrect matches
9 between tax and deed data; right?

10 A. Well, now you're talking
11 about Nomura subjects as opposed to
12 meta subjects, but I've not done any
13 separate investigation of the meta
14 subjects in Nomura in the forecast
15 standard deviation exercise, but I am
16 informed by prior investigations which
17 I performed.

18 Q. Okay. I'd like to talk
19 about another one of the filters that
20 you used in talking about -- in -- in
21 calculating forecast standard
22 deviation. So you also eliminated
23 properties outside the middle 30th
24 percentile of sales price to tax
25 assessed value ratio; is that right?

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2 A. That's correct.

3 Q. And the effect of applying
4 that, what I'm going to call the middle
5 30th percentile filter, was to
6 eliminate 70 percent of the properties
7 in the 10 percent holdout set; correct?

8 A. It's roughly 10 percent.

9 Q. And what was, in sort of
10 layman's terms, the reason for removing
11 70 -- approximately 70 percent of the
12 properties in the 10 percent holdout
13 set?

14 A. Well, again, I'm trying to
15 get a set of meta subjects which best
16 emulate the kind of market value
17 transactions which would make a valid
18 baseline for determining the FSD. The
19 -- the -- in prior investigations
20 and -- and, in fact, in -- yeah, in
21 prior investigations I recognize the
22 fact that this second filter that --
23 well, it's actually the third filter,
24 would further enhance the predictive
25 power, the -- the -- the accuracy of my

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2 model, put it that way.

3 So indeed long before taking
4 on the Nomura process I developed these
5 filters in order to ensure the accuracy
6 of the process.

7 Q. And just -- just so I'm
8 clear about that, when you -- in that
9 last answer when you said before you
10 took on the Nomura process, do you mean
11 before you started any of the FS --
12 FHFA cases or before you started
13 working on this particular one?

14 A. This particular one. I've
15 been using these filters continuously
16 for quite a few runs of my AVM and have
17 not changed them for this.

18 Q. Okay. In predicting the
19 accur -- or in assessing the accuracy
20 of a model, do you think it's
21 appropriate to take out data points
22 that suggest that the model is
23 inaccurate?

24 A. Well, that's sort of got the
25 cart before the horse. In -- in

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2 putting together a model like this what
3 we want to do is get something that's
4 of optimum accuracy, the best accuracy
5 we can possibly get. So, yes, it's
6 highly appropriate to only utilize data
7 in the model that enhances the model's
8 accuracy. And this isn't an academic
9 exercise. This is a practical exercise
10 in order to -- to develop baseline AVM
11 values as well as a gating mechanism
12 for -- for determining which underlying
13 appraisals should be investigated
14 further. The more we can do to make
15 that accurate, the better; right? I
16 mean, it's not an academic exercise.
17 I'm not trying to publish a paper here.

18 So in -- indeed, it -- it
19 is -- it is not only reasonable, but
20 it's highly recommended that I take
21 every step I possibly can to enhance
22 the accuracy of the model that I'm
23 using in this Nomura exercise.

24 Q. It's not your testimony that
25 there's anything wrong in terms of

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2 flaws with the 70, roughly 70 percent
3 of transactions that are eliminated by
4 the middle 30th percentile filter;
5 right?

6 A. I'm not making any testimony
7 one way or the other about them. I'm
8 simply saying that imposing this filter
9 allows me to utilize the best data
10 possible and come up with a model
11 that's got a -- a very high predictive
12 power. That's what I want and I mean
13 that's -- we -- we all want a model
14 that's highly accurate. And long ago
15 when I first started tackling this --
16 this exercise, I -- I recognized that
17 these were the kinds of filters that
18 were going to be necessary to get the
19 optimum accuracy in the model. I've
20 continued to use those filters
21 throughout all of these projects and --
22 and continue to have a model that has a
23 high degree of accuracy.

24 Q. Okay. So you still believe,
25 as you said in your Merrill Lynch

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2 deposition, that the three data filters
3 in the computation of forecast standard
4 deviation were designed to achieve an
5 optimum forecast standard deviation;
6 right?

7 MR. RAND: I just -- my
8 standing objection from earlier in
9 the dep. Go ahead.

10 A. Notwithstanding the fact
11 that I haven't read my Merrill Lynch
12 deposition transcript in seven or eight
13 months, and so I don't recall exactly
14 what I said in there, if -- if you'd
15 like for me to comment on anything in
16 Merrill Lynch, I'd like to be able to
17 read that and maybe take it in the
18 context --

19 Q. Okay. Fair enough.

20 A. -- in which I said it.

21 Q. Well, based on that answer,
22 and -- and Mr. Rand's objection, maybe
23 I just ask the question flat out.

24 Is it your belief that
25 the -- that the purpose and effect of

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2 the three data -- data filters used in
3 the calculation of forecast standard
4 deviation for the Greenfield AVM is to
5 achieve an optimum FSD?

6 A. I think that's one way of
7 phrasing it. That certainly may very
8 well from your prior question be the
9 way I phrased it before.

10 The -- again, what I'm
11 trying to do is come up with a -- the
12 most accurate model possible for -- for
13 determining AVM and in this case as far
14 as FSD is concerned, for coming up with
15 a conservative measure of FSD as a
16 gating mechanism for these other
17 appraisals.

18 Q. Did you do any sensitivity
19 testing to determine what would happen
20 to the FSD of the Greenfield AVM if you
21 removed these three filters?

22 A. I've looked at the -- at the
23 30 percent filter. It's relatively
24 insensitive, that is to say all the way
25 out to about 70 percent I don't see

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2 very much change in the FSD, maybe a
3 percentage point in the FSD.

4 As far as the hundred
5 percent filter is concerned, going to
6 200 percent, there's a trade-off as you
7 know. The -- the tighter the filters,
8 the less data you -- you end up using.
9 So I've done some sensitivity on that.
10 Frankly, the -- you -- you're not
11 removing very many additional
12 observations by relaxing the filters,
13 but you are making some significant
14 changes in FSD. And it's because there
15 are some highly influential outliers
16 out there. So -- so in -- and the
17 short answer is of the -- the 30
18 percent filter, not very sensitive out
19 to 70, and once you get out to 70 you
20 are picking up some really hugely
21 influential outliers which you want
22 to -- want to leave out.

23 Q. You want to leave them out
24 why?

25 A. Because -- and this goes

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2 back to some of our earlier discussions
3 about PRESS Statistics, Cook's D, those
4 sorts of things. Why leave in data
5 that doesn't have anything to do with
6 these properties? In short, as I -- I
7 testified before the lunch break, you
8 have middle class properties here. I
9 mean these are 150 to \$250,000.00 homes
10 by and large, but original sales prices
11 in the -- in the raw data set that I
12 was working with, the highest one I see
13 out there is 113 million. The highest
14 tax assessment value was 440 million.
15 Those numbers have absolutely nothing
16 to do with valuing these Nomura
17 properties.

18 I also saw as I was -- I was
19 looking at the data a lot of
20 transcription errors when you start
21 getting out at the -- the very edges of
22 the data. And -- and finally, prices
23 are not normally distributed. They're
24 log normally distributed. And so when
25 we were dealing with raw prices, the

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2 skewness in the data means that the
3 high prices, which, again, have nothing
4 to do with Nomura properties, have a
5 much greater influence on the
6 statistical characteristics than the
7 low-valued properties.

8 And so it's highly
9 appropriate to use these kinds of
10 filters in order to get rid of stuff
11 that's out there under the -- the --
12 the -- the highly influential outliers
13 so that I can just deal with a set
14 of -- of data that better represents
15 the -- the Nomura properties.

16 Q. Why didn't you filter the
17 CoreLogic data at the outset so that
18 you were only looking at transactions
19 between 150 and \$250,000.00?

20 A. Because I believe the
21 filtering process that I used was --
22 was certainly well-established in the
23 literature. I've already cited several
24 different not dissimilar kinds of
25 filtering that -- that are -- are

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2 common in the econometric literature.

3 The -- I mean, quite
4 frankly, I think that the way I
5 filtered this data results in a highly
6 accurate model with little need for any
7 other kind of filtering.

8 Q. Now, in your October 6th
9 report which I think is in front of you
10 there, you computed forecast standard
11 deviation for each individual
12 Greenfield AVM regression; right?

13 A. Well, would you point to
14 me to the page you're referring to?

15 Q. Sure. Find my copy. Now
16 I'm not seeing it. It's in here
17 somewhere. I may have misspoken about
18 whether you discussed this, but you --
19 you have done a computation of the FSD
20 for each of the regressions of the
21 Greenfield AVM regressions as opposed
22 to a global FSD.

23 A. Point to me to what you're
24 talking about. I want to make sure
25 we're using the --

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2 Q. All right. Well, it may
3 not --

4 A. -- we're using the term the
5 same way.

6 Q. -- it may not be worth the
7 time.

8 Isn't that what you're doing
9 in -- in Table 3?

10 MR. RAND: This is
11 unorthodox. I want to move this
12 along though, so Page 2 is where
13 he's talking about it.

14 MR. HOLLEY: Okay.

15 MR. RAND: If that helps
16 you. Okay?

17 MR. HOLLEY: All right.

18 MR. RAND: I don't mean to
19 direct traffic --

20 MR. HOLLEY: No, no, it's --

21 MR. RAND: -- but it's a
22 limited dep --

23 MR. HOLLEY: Fair enough.
24 Fair enough.

25 MR. RAND: -- and so just

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2 keep moving along. If -- so I'll
3 leave it to you now, but Table 3 on
4 Page 2 lays it out.

5 MR. HOLLEY: But it is
6 Table 3 where he -- where he --

7 MR. RAND: Well, I don't
8 want to -- I don't want to
9 testify --

10 MR. HOLLEY: Okay. All
11 right. Okay.

12 MR. RAND: So let me stay
13 out of it, all right, but I'm
14 trying --

15 MR. HOLLEY: Maybe we should
16 both shut up.

17 MR. RAND: -- I'm try -- I'm
18 trying to help you.

19 A. All right. So I'm in my --
20 I'm in my November -- my October 6
21 report.

22 Q. Right, right.

23 A. And let me just read what I
24 did here.

25 Q. Sure.

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2 A. (Reviewing document.)

3 MR. RAND: Just so you know
4 what's going on, he just did one two
5 days ago, I think he's -- but
6 anyway, I leave it to you all.

7 A. Yeah, so -- so I'm -- I'm --
8 I'm computing a 90 and 95 percent
9 confidence interval, but not an FSD --

10 Q. Okay.

11 A. -- for each one of these.
12 That's -- I think that's where the
13 confusion lie.

14 Q. Gotcha. Okay. And why did
15 you do -- why did you do that
16 additional analysis?

17 A. Well, I mean, number one, I
18 wanted to -- to point out that my FSD
19 is actually a more conservative
20 measure, but number two, it helped
21 me -- it helped inform my LTV
22 recalculations.

23 Q. Okay. And how did it do
24 that?

25 A. Well, if you go to Page 4,

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2 and I'm referencing Table 1 here,
3 "Table 1 demonstrates that, even if
4 analyzed at Dr. Hausman's proposed 95
5 percent confidence level, 96.7 percent
6 of these Nomura subject properties had
7 LTV ratios over 80, 76.4 percent had
8 LTV ratios above a hundred, although
9 Nomura represented in its loan tapes
10 and the applicable offering materials
11 that no loans were above 100 LTV."

12 Q. Okay. So that -- this is --
13 this para -- the sentence you just read
14 is how you applied the confidence level
15 analysis you did to LTV ratios?

16 A. Yes.

17 Q. Okay. Now, you didn't use
18 either of the high forecast error
19 filter or the middle 30th percentile
20 filter that you used when validating
21 the Greenfield AVM when you were
22 choosing comparables to use in valuing
23 the Nomura subject properties; right?

24 A. That's right.

25 Q. And why -- was why not?

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2 A. Well, the -- the two filters
3 you just mentioned we used to help
4 winnow out the meta subjects. That's
5 the only place they were used was in
6 the determining the meta subjects.

7 Both for the comparables
8 used in valuing the original properties
9 as well as the meta comparables used in
10 the FSD determination, the principal
11 filter I used was the cross-validation
12 filter.

13 Q. But you would accept the
14 proposition, would you not, that there
15 are certain occasions when something
16 caught in the validation exercise by
17 the high forecast error filter or the
18 middle 30th percentile filter, that
19 property ends up getting used in the
20 valuation exercise in -- in the -- in
21 running the Greenfield AVM?

22 A. I don't know that I would
23 agree or disagree with it. I haven't
24 done that. I'm -- I don't recall
25 having done that investigation.

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2 Q. Well, have -- have you
3 reviewed any of the expert reports
4 submitted by Nomura where that
5 observation is made?

6 A. I may have. I -- I just
7 don't recall as I sit here. If you'd
8 like to show me the report and let me
9 take it in the context in which it was
10 written, I'd be glad to refresh my
11 memory.

12 Q. Okay. Well, it's probably
13 not worth the time, but as you sit here
14 today, you don't have -- you don't have
15 knowledge one way or the other whether
16 properties that were removed from the
17 validation exercise by the high
18 forecast error filter or the middle
19 30th percentile filter ended up being
20 used in the Greenfield AVM to value the
21 Nomura subject properties?

22 A. Don't have a recollection
23 one way or the other. It wouldn't
24 bother me if it did, but I just don't
25 have a recollection of it.

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2 Q. Okay. What is the
3 purpose -- and I don't -- I know we've
4 talked about the cross-validation
5 filter before, but I don't think we've
6 touched on this point.

7 What is the purpose of
8 applying a cross-validation filter as
9 you do in the Greenfield AVM?

10 A. Well -- and, again, the
11 cross-validation filter is applied to
12 the comps as well as the meta comps.
13 And if -- as I've already pointed out,
14 these -- these, several times here,
15 these Nomura properties are basically
16 middle class properties. And so why
17 would I use comps which aren't
18 predictive of that? In short, I'm --
19 I'm doing this sort of cross-validation
20 filter to help me get the most accurate
21 AVM I possibly can. I mean, that --
22 that is the goal here. And if I find
23 that using this kind of
24 cross-validation filter allows me to
25 remove comps that aren't the best

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2 predictive of value, then that sort of
3 filter is -- is -- is appropriate in
4 this kind of exercise.

5 Q. Okay. And are -- are there
6 particular academic articles or books
7 or things you're relying on when --
8 when you say that it's appropriate to
9 use this sort of cross-validation
10 filter in the Greenfield AVM?

11 A. Well, implicitly so. I
12 mean, appraisers are -- this is an
13 appraisal exercise, and appraisers are
14 directed to use the best comps
15 possible. I mean, if I was appraising
16 a \$200,000.00 house and I went out and
17 got 113 million dollar comps, I -- I --
18 I don't think anybody would accept the
19 credibility of my work.

20 And so any appraiser is
21 taught to get comps which are best
22 suited for the -- for the subject at
23 hand. Remember that's what we're doing
24 here is choosing comps. And so the
25 cross-validation filter allows me to

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2 choose the comps which best work with
3 the model that I'm -- I'm -- I'm
4 utilizing. Let me give you another
5 example.

6 Let's assume for a moment
7 that I'm appraising a single family
8 detached residence, but I go out and
9 gather comps that are only commercial
10 office buildings. Well, those aren't
11 the sort of comps that fit that model.
12 So I have a model here and I want to
13 choose appraisal comps which fit my
14 model in order to have the most
15 accurate model possible. So inherent
16 in all appraisal instruction is this
17 notion that we're going to get comps
18 that, A, best fit the model, and --
19 and, B, best fit the subject which
20 we're trying to value.

21 Q. Okay. Are you aware of any
22 commercial AVM that removes properties
23 as comparable -- as comparables because
24 the AVM does a less than adequate job
25 of predicting the market value of those

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2 properties?

3 A. I don't know because these
4 are all, you know, proprietary black
5 boxes. In other words, they may, but
6 I -- I -- I mean we don't know because
7 we don't have access to their code.

8 Q. Okay. What tests did you do
9 of the outputs of the Greenfield AVM
10 without applying the cross-validation
11 filter?

12 A. I frankly can't recall.

13 Q. Okay. You -- I think you've
14 testified today that the Greenfield AVM
15 is the product of -- of years of work.
16 Is that fair?

17 A. Yes.

18 Q. In the course of developing
19 the Greenfield AVM, what third party --
20 independent third parties have tested
21 it?

22 A. Well, I don't know if we're
23 using the word "test" in the same
24 context. I've used my Greenfield AVM
25 in litigation and I've exposed it in

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2 appraisal without credible support,
3 there is significant evidence in the
4 appraisal literature and community that
5 appraisers were under significant
6 pressure to issue biased appraisals
7 during the relevant time period.
8 Indeed, as detailed below, a number of
9 appraisers who conducted original
10 appraisals on the sample Nomura
11 properties petitioned the Appraisal
12 Subcommittee for relief from pressure
13 related to bias."

14 So while I -- I have not
15 attempted to connect the dots between
16 Nomura loan originators, Nomura lenders
17 and the Nomura appraisers, I mean there
18 was evidently lots of pressure at the
19 time and evidently some of your
20 appraisers said that they were
21 receiving pressure.

22 Q. Okay. But just -- just so
23 we're on the same page, you cannot, as
24 you sit here today, testify that any of
25 the appraisers who delivered appraisals

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2 you say are overstated of the Nomura
3 subject loans were ones responding to
4 pressure from brokers or lenders to
5 raise the value opinions they offered?

6 A. I believe there were some,
7 yeah. I mean, in other words, I'm not
8 saying that they pointed a finger at
9 Nomura lenders, but I believe that some
10 of your appraisers were signers of that
11 petition.

12 Q. Are they the people who
13 appraised the loans that you have said
14 are overstated?

15 A. I believe so, yeah. That
16 should be in my work file.

17 Q. And are you offering an
18 opinion that, in fact, those people did
19 in this particular instance respond to
20 pressure from brokers or lenders to
21 increase the value opinions that they
22 offered about the Nomura subject
23 properties?

24 A. No, as I've already
25 testified, I -- I'm not able to connect

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2 those dots.

3 Q. Would you agree with me that
4 even if an appraiser makes a
5 substantial error as that term is used
6 in USPAP in performing an appraisal,
7 that doesn't mean that the appraiser
8 communicated a report that the
9 appraiser knew to be misleading or
10 fraudulent?

11 A. That's right. Those are two
12 separate portions of USPAP. In other
13 words, you could -- you could not make
14 any errors in the analysis, which is
15 you're citing USPAP Standard Rule
16 1-1(b), you could not violate 1-1(b),
17 but nonetheless communicate the report
18 in a fraudulent manner. On the other
19 hand, you could -- you could violate
20 1-1(b), but still not be fraudulent in
21 the transmission of the report.

22 Q. And you don't have any way
23 of knowing as you sit here today
24 whether the flaws that you see in the
25 appraisals of the Nomura subject

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2 properties are the result of errors
3 that are innocent as opposed to
4 misconduct in the sense of -- of
5 offering a report that you know to be
6 misleading?

7 A. Well, you got the word
8 "innocent" in there, Counselor. USPAP
9 doesn't recognize the word "innocent."
10 It just says we're not supposed to make
11 errors; and if you make one egregious
12 error or a series of minor areas
13 which -- which kind of add up to an
14 egregious error, then you've -- you've
15 rendered an appraisal in a less than
16 credible fashion. It's -- USPAP is
17 silent whether that was quote-unquote
18 innocent or not.

19 As a -- as an appraiser we
20 have a duty to conduct our work in a --
21 in a diligent and accurate fashion.
22 And so we had -- our appraisal report
23 has to -- has to be accurate. It has
24 to withstand tests of accuracy and
25 credibility. So that concept of an

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2 innocent error, it's an error. You're
3 not supposed to make it. And if you
4 make a whole series of small errors or
5 one big error, you've rendered an
6 appraisal in a less than credible
7 fashion.

8 Q. You've made errors in
9 appraisals; right?

10 A. I have.

11 Q. You didn't do that
12 intentionally, did you?

13 A. I would hope not. I don't
14 recall making any intentional errors,
15 but my appraisal report still had to
16 withstand any error that I made. And
17 so if I, John Kilpatrick, had issued a
18 report that had an egregious error in
19 it, then that appraisal report would be
20 less than credible.

21 And -- but I'm not
22 personifying these things. I'm not
23 saying Bill Smith appraiser is -- is
24 being called to task. I'm simply
25 saying that the appraisal report for a

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2 given report, 123 Elm Street, has a
3 credibility issue. I'm not -- I'm not
4 concerning myself with who authored it.

5 Q. Right.

6 A. I'm not turning that person
7 into his or her state licensing board.
8 I'm simply saying this appraisal report
9 either has such an egregious error or
10 such a series of errors that this
11 appraisal report can't be believed.

12 Q. Right. And you're also not
13 putting yourself in the head of these
14 appraisals -- appraisers and saying
15 that they didn't subjectively believe
16 the opinions of value that they offered
17 in the appraisals you attack; isn't
18 that right?

19 A. Well, it's a fine line. I'm
20 saying that a reasonable appraiser
21 couldn't believe these appraisals. And
22 by the way, it's not an attack. It's
23 just a credibility assessment. I mean,
24 I'm not attacking anybody. I'm just
25 saying, look, either the appraisal is

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2 right or it's wrong. If it's wrong,
3 it's wrong because a reasonable
4 appraiser couldn't believe it.

5 Now, if the original
6 appraiser is -- is -- is one of those
7 credible appraisers, one of those
8 reasonable appraisers, then one might
9 make the inference that that reasonable
10 appraiser couldn't believe his or her
11 own work at the time he issued it, but
12 I'm not leaving out the -- the option
13 that that appraiser might not have been
14 a reasonable appraiser, that you guys
15 might have hired some appraisers who
16 just didn't know what they were doing.

17 Either way, a reasonable
18 appraiser couldn't believe this stuff,
19 but I'm not trying to -- I'm not a
20 psychologist or a soothsayer. I'm not
21 getting in the heads of these
22 appraisers and trying to tell you what
23 they -- what they believed. I'm simply
24 saying if they are a reasonable
25 appraiser, they couldn't believe this

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2 stuff.

3 Q. Okay. Now, I don't want to
4 spend a whole lot of time on the
5 mechanics of the Credibility Assessment
6 Model 'cause I think you've covered
7 that in the Goldman Sachs deposition,
8 but as I understand it, there are 31
9 questions in the Credibility Assessment
10 Model and you assigned various values
11 to those questions; is that right?

12 A. That's right.

13 Q. Okay. And the questions you
14 say are derived from USPAP, but you
15 don't say that you can find any one of
16 them in terms in USPAP; correct?

17 A. Well, sure. I mean, USPAP
18 gives a series of what we might think
19 of as quality standards. For instance,
20 I'm not supposed to commit an egregious
21 error, and that doesn't list out all
22 the possible errors. It just says I'm
23 not supposed to commit an egregious
24 error. It says I'm -- in 1-1(a) it
25 says I'm supposed to follow the

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2 methodology that would be recognized by
3 and accepted by my peers in the
4 industry, but it doesn't detail what
5 that methodology is.

6 What it does is it expects
7 me as an appraisal reviewer to
8 reference back to the kind of
9 methodology which I know to be taught
10 to these appraisers in the course of
11 their licensure.

12 Q. Okay. But if I went to try
13 to find in -- in -- in the -- the USPAP
14 rules or advisory opinions, the text of
15 the questions in the -- in the
16 Credibility Assessment Model, I
17 wouldn't find any of them; right?

18 A. No, you wouldn't. And if
19 you were to pull Fannie Mae's review
20 form, you wouldn't find those questions
21 in it either. I mean, I mean, quite
22 frankly, there are lots of review forms
23 out there. There are other automated
24 review models. There -- mine, I can't
25 speak to the other ones, I can speak to

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2 mine. Mine has questions all of which
3 tie back to USPAP. In other words,
4 each one of these questions, which is
5 formulated based on how I as a USPAP
6 instructor would teach and evaluate
7 real estate appraisal, each one of
8 these has its basis in USPAP and
9 each -- in other words, each one of
10 these questions derives from a
11 violation of USPAP, but, no, that --
12 the -- the specific phraseology, the
13 specific questions are not in USPAP.

14 Q. Has the Credibility
15 Assessment Model been used outside the
16 context of the FHFA litigation?

17 A. Well, yes and no. I mean
18 there are other Credibility Assessment
19 Models that have been. I've done real
20 estate appraisal review using points,
21 questions, bullet points, if you will,
22 that are not dissimilar to this. But
23 this very specific formulation, this
24 exact wording so to speak was written
25 down by me at the -- when I tackled

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2 this litigation because I knew that I
3 was going to be reviewing thousands and
4 thousands of appraisals. And so in
5 order to do that, I had to let -- I had
6 to add a certain layer of automation to
7 what I was doing and -- and that meant
8 that I had to write everything down
9 in -- in this kind of fashion.

10 So certainly I've used these
11 questions to evaluate appraisals in the
12 past, but not necessarily in exactly
13 this form.

14 Q. Are you aware of any other
15 Credibility Assessment Model in the
16 industry that has been used to call
17 into question the credibility of
18 appraisers?

19 A. Appraisers or appraisals?

20 Q. Appraisers.

21 A. I don't know. I mean,
22 there -- when I first put this
23 together, I -- I was looking at FNC's
24 model, which just like all the other
25 black boxes, you can't dig too closely

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2 into it. Since that time about six or
3 eight other models have popped up out
4 there that -- that measure credibility
5 of appraisals.

6 Again, they're all black
7 boxes. I can't pry -- pry them open,
8 but I mean that's kind of what they all
9 do is assay the credibility of an
10 appraisal. Now, you're personifying it
11 to the appraiser. I'm not going quite
12 that far, but whether somebody uses it
13 for appraisers or appraisals, I -- I
14 mean I can't tell you.

15 Q. Okay. Your Credibility
16 Assessment Model has not been peer
17 reviewed by anyone in the real estate
18 appraisal industry; is that right?

19 A. I think that it -- depending
20 on what you mean by peer reviewed, but
21 I think that's fair to say, yeah.

22 Q. Now, in deciding whether
23 appraisals are credible as of the time
24 they were delivered back in '05 and
25 '06, you -- you use something called

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2 the Reasonable Appraiser Standard;
3 right?

4 A. Well, sort of. I wrote down
5 the 31 questions and then I said, you
6 know, I'm going to have to explain to
7 people where these come from and so
8 there was a certain amount of reverse
9 engineering. I didn't start with the
10 Reasonable Appraiser Standard and then
11 derive from that a series of questions.
12 I had already derived the questions
13 because they were based on my
14 experience as a USPAP instructor,
15 reviewer and an appraiser.

16 But in the process of
17 explaining where these questions come
18 from and -- and why some of them are
19 scored more seriously than others, I
20 recognize the fact that the Reasonable
21 Appraiser Standard was a -- was a -- a
22 handy way of explaining it to people.

23 Q. Okay. So the Reasonable
24 Appraiser Standard is -- is effectively
25 a term that you coined to explain what

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2 you were seeking to achieve with the 31
3 questions in the Credibility Assessment
4 Model?

5 A. No. Reasonable Appraiser
6 Standard is actually used in some
7 literature out there. I've -- I mean,
8 it's -- it's -- I didn't coin it. I
9 mean, I wish I had, but it's actually
10 captured in some writings out there.

11 Q. And in the -- in the
12 writings in the appraisal field that
13 use that term, do they use it in the
14 same way that you do?

15 A. I believe so, if I -- if I
16 recall correctly, yes.

17 Q. Okay. Now, and this is on
18 Page 45 of the -- of what I'll just for
19 shorthand call the CAM report. You
20 write that, "The Reasonable Appraiser
21 Standard can be used to evaluate
22 whether a reasonable appraiser adhering
23 to USPAP and reasonable appraisal
24 practices could have believed the
25 appraisal at the time."

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2 supposed to have that sort of errors.

3 And number two, I don't say
4 always, I just say frequently. I don't
5 even say the plurality of times. Just
6 say -- and I offer that up as an
7 example of why that sort of thing is in
8 USPAP and why it's something that we
9 would look for.

10 Q. And -- but here you're
11 speaking about an appraiser, right, not
12 an appraisal. How is this statement
13 consistent with what you told me
14 earlier this afternoon which is that
15 you're not seeking to cast aspersions
16 on particular appraisers?

17 A. Well, I'm not -- first thing
18 first. I'm not measuring the
19 appraisers. Note that nowhere in here
20 do I name these appraisers. I'm not
21 turning them over to their state
22 licensing boards or anything like that,
23 but this particular footnote is offered
24 up as an example of how that error may
25 occur. No mistake about it, errors

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2 occur either intentionally or
3 unintentionally by appraisers, but I'm
4 not talking about the appraisers
5 per se. I'm talking about the product
6 of the appraiser's work.

7 Q. Are you aware that both
8 Fannie Mae and Freddie Mac maintain
9 lists of appraisers who are not
10 permitted to submit appraisals?

11 A. Anecdotally. That is to say
12 I mean I've -- I've heard of it, but
13 I'm not familiar with it. Doesn't have
14 anything to do with the work I do.

15 Q. Okay. So I take it that you
16 made no effort to see whether the
17 appraisers who rendered the appraisals
18 that you say are not credible ever
19 appeared on those lists of appraisers
20 maintained by Fannie and Freddie of
21 appraisers not permitted to submit
22 appraisals to them?

23 A. Of course not. It wouldn't
24 be germane to the work I was doing
25 here.

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2 Q. I -- looking at Page 66 and
3 67 of your CAM report which I think is
4 in front of you, you say at the
5 carry-over paragraph there that the
6 weighting of each category of -- of
7 questions in the CAM varies according
8 to its differential impact on the
9 credibility of an appraisal.

10 Do you see that, sir?

11 A. Yes.

12 Q. Is there such a weighting
13 system in USPAP for determining whether
14 particular kinds of appraisals have a
15 particular impact on the credibility of
16 that appraisal?

17 A. No.

18 Q. So how did you come up with
19 this categorization of differential
20 impacts on credibility?

21 A. Various sources.

22 Q. Can you tell me anything
23 more about it than that?

24 A. Well, sure. If we look at
25 category three -- well, excuse me,

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Aspect 3 of the Appraisal Process and we look at the eight categories within Appraisal Process, you'll note that they're all equally weighted. Those -- that list of eight comes directly from a table in the textbook "The Appraisal of Real Estate." In that table they're all equally weighted. If we go up to the Reasonable Appraiser Standard, well, accuracy is -- is -- is more highly touted, more highly regarded in the literature than completeness, objectivity and trustworthiness. Don't get me wrong, trustworthy, objective and complete are all stressed and that's why the Reasonable Appraiser Standard is the -- is the -- the -- the leading aspect weight here, but accuracy I think is -- is better captured in the appraisal literature. In fact, many years ago before the word "credible" was adopted into USPAP, frequently the word "reliable" was used. And so when I note that within

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2 each aspect, the contributory weight
3 totals up to 1, so I recognize that
4 these are the four categories of
5 Reasonable Appraiser and accurate ought
6 to be more than the other three, so I
7 simply weighted it twice as much as the
8 other ones.

9 If you go down to Impact on
10 Value, Aspect Weight 4, Direct
11 Indirect, Supportive, clearly Direct is
12 going to be more, Indirect's going to
13 be less and Supportive is going to be
14 less than that. So I -- I gave it this
15 three to -- three to one ratio between
16 Direct and the other two, and then a
17 four to one ratio between Indirect and
18 Supportive.

19 Q. You would agree with me,
20 would you not, that two different real
21 estate appraisers both applying
22 industry standards could have a
23 different view about the impact of a
24 given error on the credibility of the
25 appraisal being reviewed; right?

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2 would be taught in their market
3 analysis course.

4 Q. Okay. And -- and does --
5 does USPAP say anything about the slope
6 of that trend line, what it has to be
7 before a market is -- has a particular
8 property value trend?

9 A. No.

10 Q. Again, tell me if I'm wrong,
11 but the way I understand the R code,
12 the source code of the Credibility
13 Assessment Model, it assumes that any
14 market in which property values are
15 either increasing or decreasing by less
16 than 4 percent annually is a market
17 that's stable; and if the increase or
18 decrease in values is greater than 4
19 percent, then the trend is either
20 increasing or decreasing.

21 A. That's right. And we give
22 it that 4 percent to give the sort of
23 leeway that we talked about, the fudge
24 factor. In other words, if you had
25 a -- a market trend that was zero,

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2 there's no change in -- in median
3 prices over four quarters, then we
4 could say that market was stable. What
5 if it's going up by a tenth of a
6 percent a year or a half a percent or 1
7 percent? I mean arguably that's an
8 increasing market. And if the
9 appraiser reported stable but it's
10 actually going up by 1 percent, well,
11 that's not -- that's not stable, is it?
12 That's increasing.

13 (Mr. Rand is present.)

14 A. But rather than put the
15 threshold that close, I give it 4
16 percent either way which is not an
17 unreasonable measure. That's twice the
18 level of inflation that we've seen over
19 the last few years.

20 And so -- and -- and by the
21 way, there is a reason for me using 4
22 percent. I presented a paper at the
23 American Real Estate Society meetings a
24 couple of years ago that showed if you
25 go all the way back to 1946 property

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2 prices on a nominal basis have gone up
3 2 percent plus inflation annually, so 4
4 percent is about 2 percent plus
5 inflation.

6 So I give them that much
7 leeway up or down. If they're, you
8 know, outside of that bound, then
9 that's a finding with respect to that
10 question.

11 Q. Okay. So the -- the 4
12 percent number that you picked for
13 determining the boundary between
14 stability and increasing and decreasing
15 markets comes from this historic notion
16 that property values increase 2 percent
17 annually?

18 A. Well, it's not a notion.
19 It's the empirical findings using price
20 trend data, FHFA price trend data.

21 Q. Got it. That 4 percent
22 threshold is not in USPAP, is it?

23 A. No, but remember, USPAP
24 doesn't contain any of these
25 thresholds. USPAP just says an

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2 appraiser is supposed to be familiar
3 with and utilize appropriate appraisal
4 methodologies. So if the appraiser was
5 taking a course in market analysis,
6 developing this kind of trend line is
7 exactly what he or she would be taught.
8 And that sort of threshold would
9 certainly be a reasonable measure given
10 the fact that even a 1 percent
11 differential could arguably be wrong in
12 this case, but we are giving them four
13 percentage -- well, a total of eight
14 percentage points, four percentage
15 points either way of leeway in order to
16 measure correct or incorrect.

17 Q. So if -- if the appraiser --
18 the appraisal, excuse me, that's being
19 reviewed says that the property -- that
20 the value trend is stable, but it turns
21 out based on the computation in
22 Question 8 that it's actually
23 increasing at 4.125 percent, that
24 appraisal fails this question?

25 A. That's correct.

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2 Q. And -- and that -- based on
3 that tiny disparity, the appraisal gets
4 more than one-quarter of the points
5 necessary to be determined
6 non-credible?

7 A. Sure. I think --

8 MR. RAND: Object to the
9 form. Go ahead. Sorry.

10 A. Sure. I think that any
11 reasonable appraiser would recognize
12 that's one of the series of errors
13 envisioned under USPAP Standard Rule
14 1-1 Charlie, so 1-1(c). So if you --
15 if you -- if you only miss Question 8,
16 one error, that doesn't render the
17 appraisal less than credible. But if
18 you -- if you make a series of errors
19 like that, if the appraisal, not the
20 appraiser, but the appraisal has -- has
21 such a series of errors, then it's not
22 unreasonable that after four such
23 errors this appraisal is -- has reached
24 the point of not being believable
25 anymore.

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2 Q. So it's your testimony that
3 if I miss -- I. I should say if an
4 appraisal misses these thresholds even
5 by, you know, the width of a hair,
6 that -- that those four misses could
7 render the appraisal non-credible?

8 A. Well, this isn't the width
9 of a hair. Remember this is -- I'm
10 giving them eight percentage points,
11 four on either side of zero as a -- as
12 a -- a bound so to speak. So there --
13 there's a lot of -- of target area,
14 the -- the bull's-eye for this target
15 is very, very wide. If they -- if they
16 miss the -- they got to miss the target
17 entirely for that question to be scored
18 against them, against it. Excuse me.

19 Q. So going back to my
20 hypothetical where the appraiser said
21 that the market was stable, but your
22 computation in Question 8 shows that
23 the market is appreciating by 4.125
24 percent, and, therefore, they fail
25 Question 8, what impact would that have

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2 signature, presses send and the
3 document gets send off to Nomura. This
4 is highly mechanistic. It's supposed
5 to be highly automated. You got to
6 work at making -- at making errors with
7 this stuff.

8 And so when you -- when you
9 accusatorially say that this is a --
10 assumes a highly mechanistic process,
11 it's supposed to be mechanistic.

12 Q. How -- how do you square the
13 testimony you just gave me with the
14 interagency guidelines we looked at
15 this morning which say that -- that you
16 can't do what you just said?

17 A. I'm telling you -- number
18 one, I'm not -- I don't have the
19 interagency guidelines in front of me,
20 but if I recall correctly our testimony
21 was that the interagency guidelines
22 said you couldn't use an automated
23 valuation model. They didn't say you
24 couldn't use a computer-assisted model,
25 and that's exactly all this is. It's

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2 highly mechanized.

3 Q. So it's your testimony that
4 most residential real estate appraisals
5 occur with people doing drive-bys
6 taking pictures on their cell phones?

7 A. I'm not going to say most.
8 I am going to tell you there's a --
9 there -- there's a lot of software out
10 there that's being sold to appraisers
11 to do precisely that. The -- I mean,
12 there are a number of competing
13 companies. I cited Alamo just a second
14 ago. And it's -- it's not Alamo, it's
15 Alamode, A-L-A-M-O-D-E. They're trying
16 to make this as automated as possible.
17 So appraisers are using common data
18 sets and they're using apps on their
19 cell phones and apps on their iPads to
20 the point where I mean nobody owns a
21 typewriter anymore. And so the point
22 of it is, this is -- this is nowadays
23 as automated as they can possibly make
24 it. So to -- to -- to suggest to me
25 that I'm assuming a mechanistic

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2 process, I'm not making any assumption,
3 it is mechanistic.

4 Q. And is it your testimony
5 that it was equally mechanistic in 2005
6 and '6?

7 A. It was not equally
8 mechanistic back in those days. I'd
9 say it's more mechanistic today.
10 Nonetheless, there was a high degree of
11 mechanistic during that time frame.

12 Q. Let's look at Question
13 Number 9. Now I'm on Pages 75 and 76.
14 Question 9, score 5.24. "Did the
15 appraiser report marketing time
16 correctly?"

17 And my first question is:
18 Is there any test in USPAP that I can
19 go look to to see whether an appraiser
20 has reported marketing time correctly?

21 A. No. USPAP is silent to
22 specific tests. It simply assumes that
23 the appraiser is going to be familiar
24 with the appropriate methods as
25 outlined in 1-1(a).

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2 Q. Okay. And just -- I just
3 want to -- sorry to re -- re-track a
4 little bit. But as I understand it, as
5 to Questions Number 7 and 8 that we
6 just discussed, you had people
7 assisting you make these determinations
8 based on how the code in the model ran,
9 is that -- is that what happened?

10 A. It is, but remember I wrote
11 the code. I set the -- the -- the
12 boundary conditions, and I also
13 directly supervised my staff both in
14 the conduct of this as well as in the
15 quality control of this.

16 Q. Okay. So let's turn back to
17 Question Number 9.

18 As I understand what's
19 happening, the Credibility Assessment
20 Model calculates an average number of
21 days on the market by totaling the
22 number of days on the market for all
23 listings in the county in the previous
24 four quarters and then divides that
25 total number of days on the market by

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2 the number of unique listings.

3 A. Was it county or market
4 area? I'd -- I'd have to go back and
5 check. It may have been the market
6 area as reported by the appraiser.

7 Q. Okay. All right. I can --
8 I'll accept that clarification. But --
9 but with that change, what we're doing
10 is calculating an average number of
11 days on the market by totaling the
12 number of days on the market for all
13 listings in the market area in the
14 previous four quarters and then
15 dividing that total number of days by
16 the unique number of listings?

17 A. Yes.

18 Q. Okay. And then the
19 Credibility Assessment Model in
20 Question 9 has three buckets for the
21 resulting average number -- sorry, four
22 buckets, that's my mistake, in which to
23 place that resulting average number of
24 days on the market.

25 So if it's less than 91

1
2 UNITED STATES DISTRICT COURT
3 SOUTHERN DISTRICT OF NEW YORK
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5 -----
6 FEDERAL HOUSING FINANCE)

7 AGENCY, etc.,)

8 Plaintiff,)

9 v.) 11 CIV. 6201 (DLC)

10 NOMURA HOLDING AMERICA,)

11 INC., et al.,)

12 Defendants.)
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15 SULLIVAN & CROMWELL LLP

125 Broad Street

New York, New York 10004-2498

16 November 14, 2014

9:43 A.M.

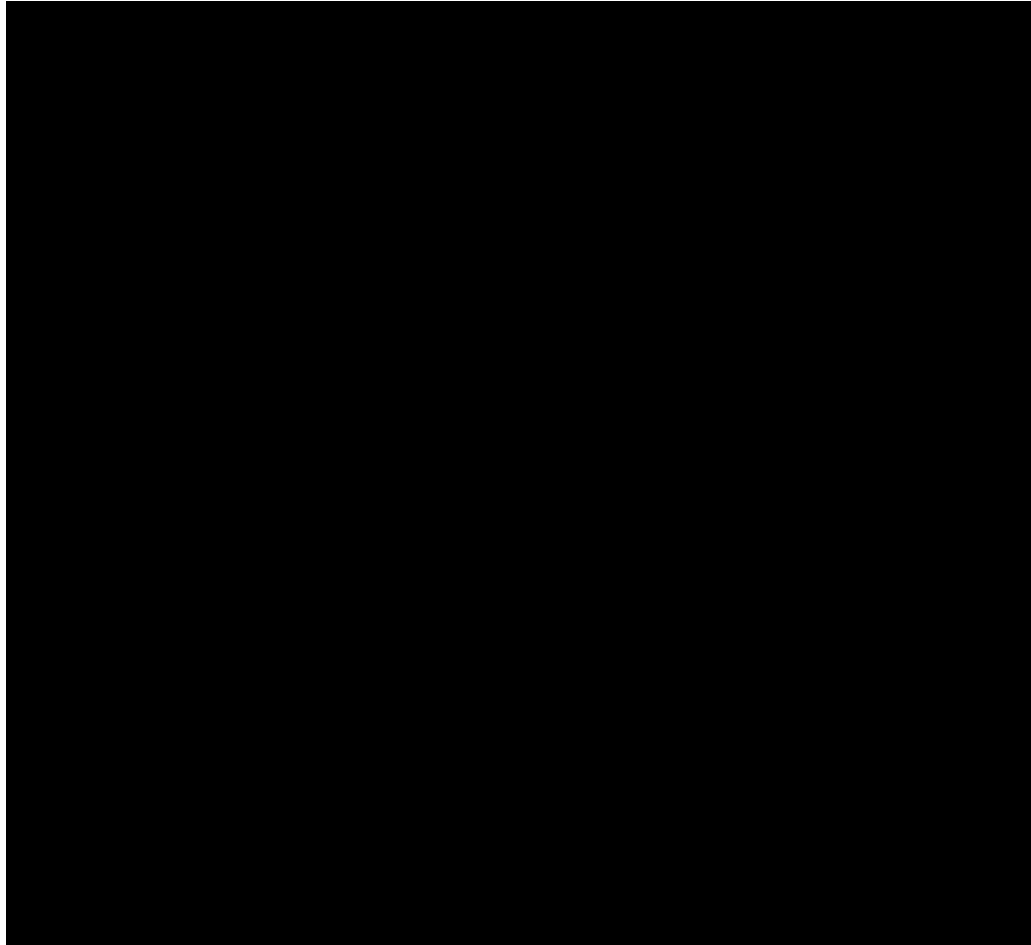
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18
19 CONTINUED VIDEOTAPED DEPOSITION OF
20 JOHN A. KILPATRICK, PH.D., MAI, FRICS
21 VOLUME II
22
23

24 REPORTED BY:

25 DEBRA SAPIO LYONS, RDR, CRR, CCR, CPE

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2 rights, pass the witness.



17 MR. HOLLEY: Fair enough.

18 - - -

19 E X A M I N A T I O N

20 - - -

21 BY MR. HOLLEY:

22 Q. Dr. Kilpatrick, you recently
23 submitted a revised errata sheet for
24 your deposition in the Goldman
25 Sachs-HSBC case; correct?

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2 A. Yes.

3 Q. Okay. I'd like to mark as
4 Exhibit 58706 that errata.

5 (Exhibit 58706, three-page
6 document consisting of
7 Acknowledgment Of Deponent and
8 Errata Sheet of John A. Kilpatrick,
9 Ph.D., MAI, FRICS, is marked for
10 identification.)

11 BY MR. HOLLEY:

12 Q. I could give you the entire
13 transcript, but I'm not sure that's
14 necessary. And I'll just ask you if --
15 if this page entitled "Errata To the
16 Deposition of John A. Kilpatrick" dated
17 6 November 2014 and apparently signed
18 by you is that errata.

19 A. It is.

20 Q. Okay. Can you tell me why
21 you changed it?

22 A. Well, as -- as you can
23 imagine I was a bit blind-sided by
24 these questions. I mean, these are
25 things I hadn't thought about in years

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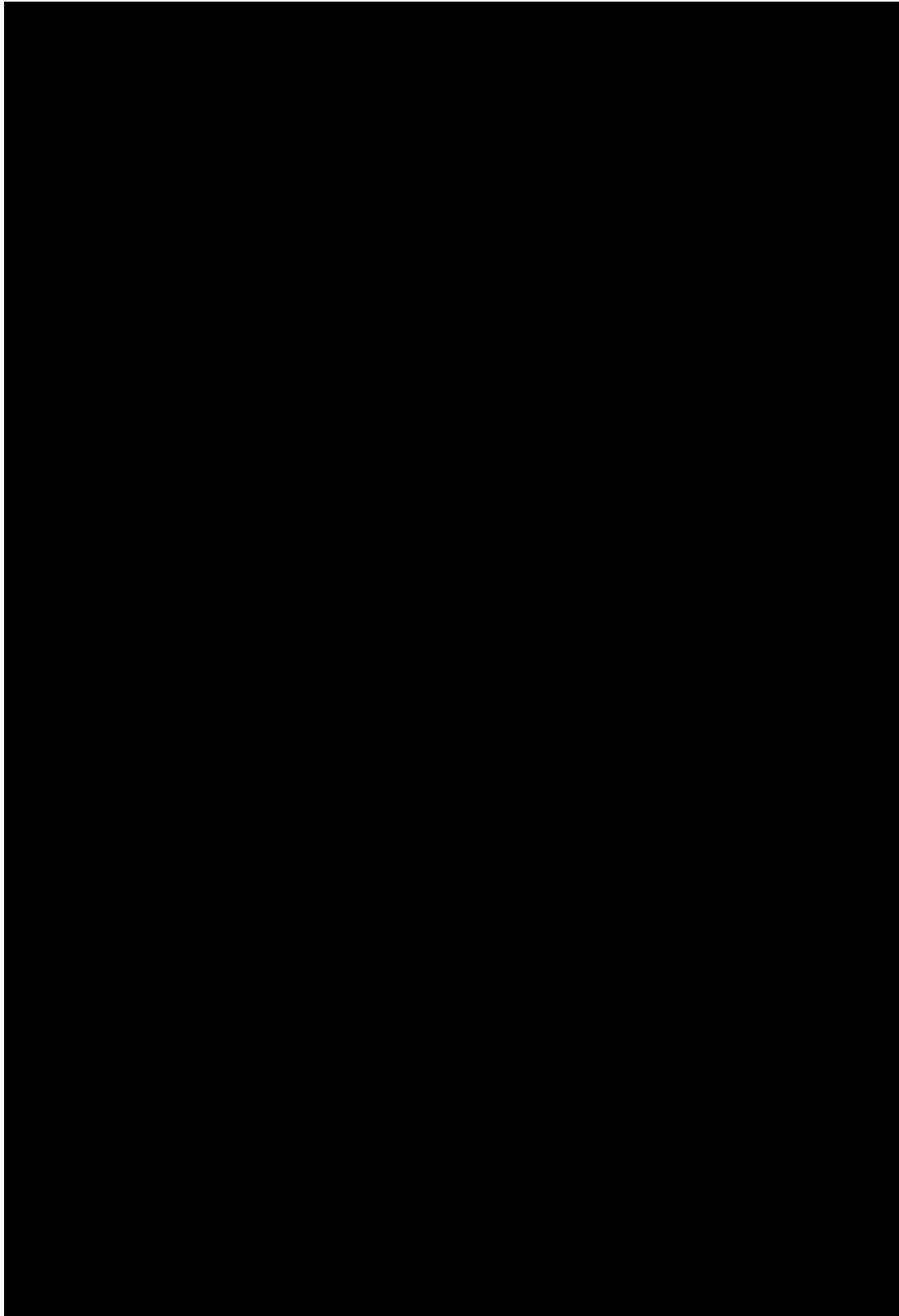
2 and so I was -- I -- when I went back
3 and read my deposition transcript, I
4 wanted to make sure that I was
5 giving -- that I had given clear and
6 complete and truthful answers. I mean
7 I was dumbfounded when -- when these --
8 these questions which were not
9 something I had anticipated or as --
10 as -- as I indicated even thought about
11 in many years were -- were posed to me.
12 So there was a little confusion on my
13 part. Even afterwards there was a
14 little confusion on my part as to
15 exactly what I had said. So I wanted
16 to set the record straight and make
17 sure that there was -- there was
18 clarity with respect to the record
19 in -- in that case.

20 Q. Okay. And looking in
21 particular at the -- at the change that
22 you made to your original answer at
23 Page 126, Lines 18 to 23, your original
24 testimony was at your deposition:

25 [REDACTED]

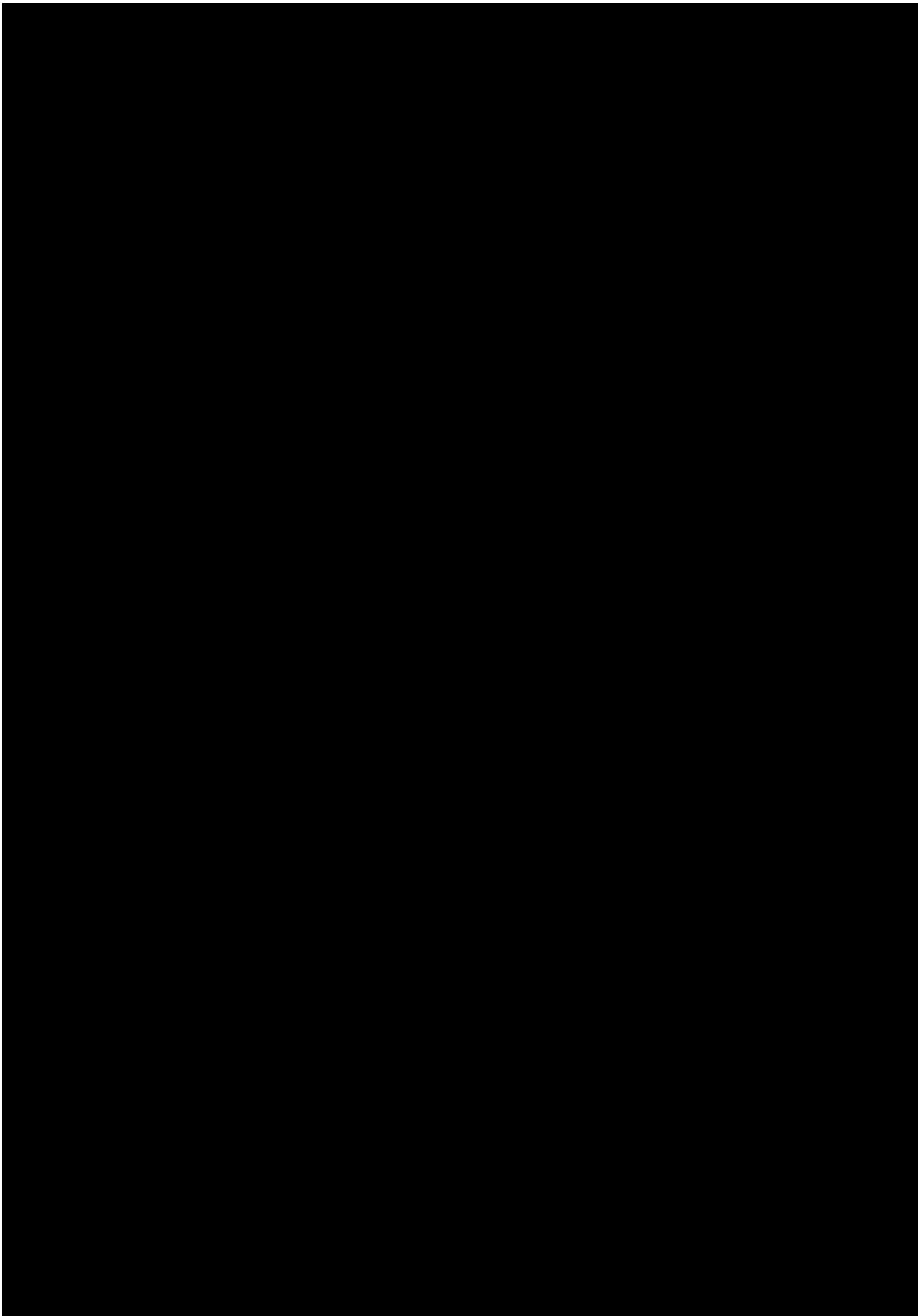
JOHN A. KILPATRICK

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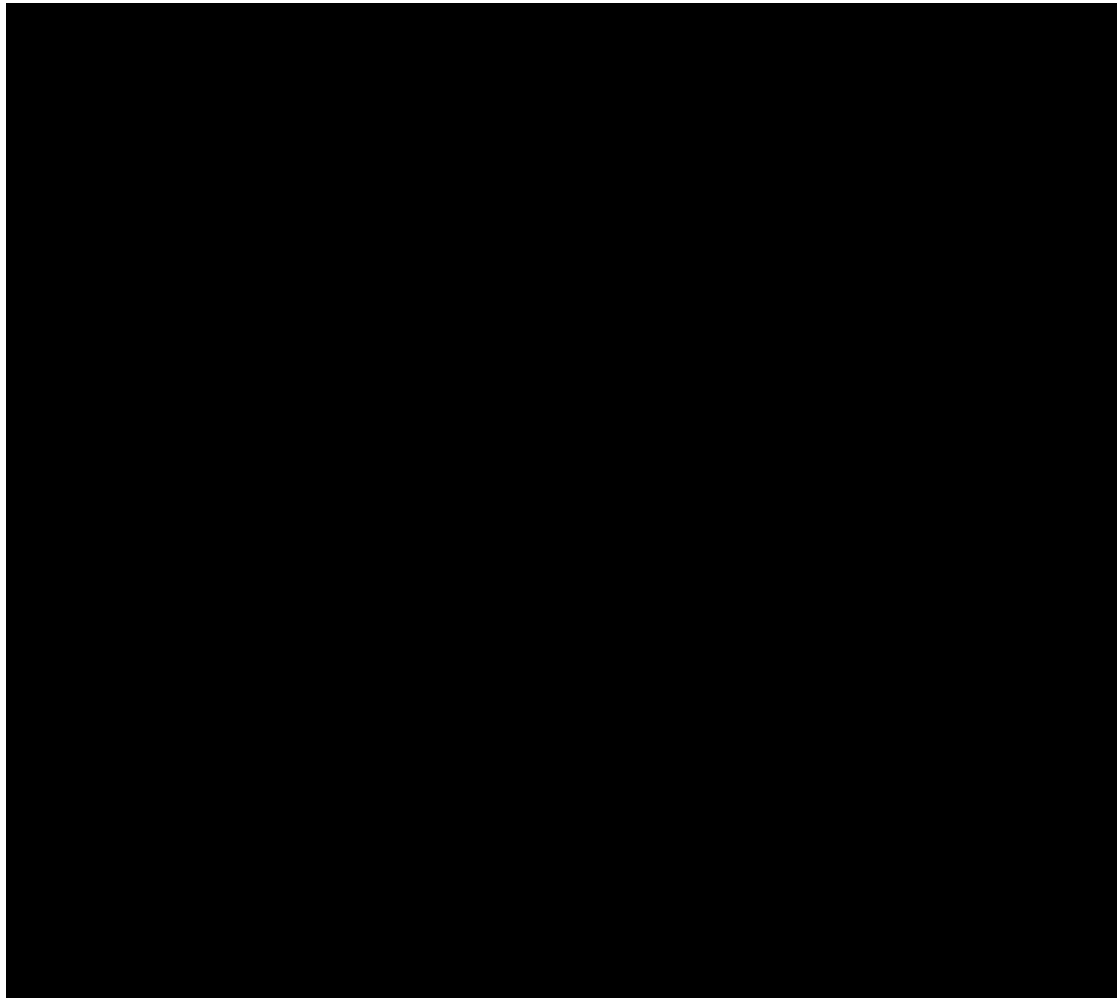


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17 MR. HOLLEY: That's all the
18 questions I have. Pass the witness.

19 THE WITNESS: Thank you.

20 MR. RAND: Deposition
21 closed. Thank you.

22 THE VIDEO TECHNICIAN: All
23 right then.

24 MR. RAND: Well, I should
25 ask. Simpson has no questions I

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JOHN A. KILPATRICK

assume, RBS?

MR. ROBINSON: That's right,
no questions.

MR. RAND: Very good. I --
I neglected to ask yesterday. I'm
sorry. Very good.

Deposition closed.

THE VIDEO TECHNICIAN: All
right then. We are going off the
record. The time is 11:16 a.m.

- - -

(Time noted: 11:17 A.M.)